

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A heat exchanger, in particular for motor vehicles, having a housing (2) and at least one tube (3) arranged in the housing (2), ~~characterized in that~~ wherein structures are provided in the region between the tubes (3) and the housing (2) and/or between the individual tubes (3).
2. (Currently amended) The heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein the structures are formed from sheet-metal structures arranged between the tubes (3) and the housing (2) and/or between the individual tubes (3).
3. (Currently amended) The heat exchanger as claimed in claim 2, ~~characterized in that~~ wherein the sheet-metal structures are finned metal plates (4), studded metal plates or separate tubes.
4. (Currently amended) The heat exchanger as claimed in claim 1, ~~characterized in that~~ wherein the structures are formed directly on the housing (2) and/or on the tubes (3).
5. (Currently amended) The heat exchanger as claimed in claim 4, ~~characterized in that~~ wherein the structures are produced by means of stamping.
6. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~ claim 1, wherein the structures are fixedly joined to the housing (2) and/or the tubes (3), in particular by soldering.
7. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~ claim 1, wherein the tubes (3) are at least in part formed by flat tubes.

8. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the tubes (3) have supporting studs on the tube outer side.
9. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the tubes (3) have a tube surface on the inner and/or outer side which is structured so as to generate turbulence.
10. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the structures (4) at least in part have an inhomogeneous structure.
11. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the structures (4) are at least partially toothed.
12. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the housing (2) is formed in two or more parts.
13. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein a medium which is to be cooled flows within the tubes (3), and a coolant flows in the space between the housing (2) and the tubes (3) and structures (4).
14. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the structures (4) are arranged on the coolant side in the housing (2) of the heat exchanger (1).
15. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the structures are arranged in the interior of at least one tube.

16. (Currently amended) The heat exchanger as claimed in ~~one of the preceding claims,~~
~~characterized in that~~ claim 1, wherein the structures are formed as at least one fin which is in
particular straight or of undulating depth and/or in particular has gills.

17. (Currently amended) The use of the heat exchanger as claimed in ~~one of claims 1 to~~
~~16~~ claim 1, wherein as an exhaust-gas heat exchanger or a charge-air cooler of a motor
vehicle.